# EXHIBIT B IDENTIFICATION OF ADDITIONAL CLAIMS

## Derived from claim 1:

- 110. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes:
  - (a) a polypeptide having the amino acid sequence of SEQ ID NO:2; or
  - (b) a polypeptide that comprises a contiguous sequence of at least about 16 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

## Former claim 2:

111. The isolated nucleic acid molecule of claim 110, comprising a nucleic acid sequence that encodes a polypeptide having the amino acid sequence of SEQ ID NO:2.

#### Former claim 3:

112. The isolated nucleic acid molecule of claim 111, comprising a nucleic acid sequence that has the nucleotide sequence from position 115 to position 1327 of SEQ ID NO:1.

## Derived from claim 4:

113. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 16 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Cancel claim 5:

## Cancel claim 6:

## Derived from claim 68:

114. The isolated nucleic acid molecule of claim 113, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 18 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

# Derived from claim 70:

115. The isolated nucleic acid molecule of claim 114, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 20 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Derived from claim 69:

116. The isolated nucleic acid molecule of claim 115, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 25 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 71:

- 117. The isolated nucleic acid molecule of claim 116, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 30 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 118. The isolated nucleic acid molecule of claim 117, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 40 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 72:

- 119. The isolated nucleic acid molecule of claim 118, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 50 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 120. The isolated nucleic acid molecule of claim 119, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 60 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 121. The isolated nucleic acid molecule of claim 120, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 70 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 122. The isolated nucleic acid molecule of claim 121, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 80 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 123. The isolated nucleic acid molecule of claim 122, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 90 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 73:

- 124. The isolated nucleic acid molecule of claim 123, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 100 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 125. The isolated nucleic acid molecule of claim 124, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 125 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

## Former claim 74:

126. The isolated nucleic acid molecule of claim 125, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 150 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 75:

127. The isolated nucleic acid molecule of claim 126, comprising a nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 200 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

## Former claim 7:

128. The isolated nucleic acid molecule of claim 127, comprising a nucleic acid sequence that encodes a polypeptide that comprises the amino acid sequence of SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

## Derived from claim 7:

129. The isolated nucleic acid molecule of claim 128, comprising a nucleic acid sequence that encodes a polypeptide that comprises the amino acid sequence of SEQ ID NO:4.

## Former claim 8:

130. The isolated nucleic acid molecule of claim 128, comprising a nucleic acid sequence that encodes a polypeptide that comprises the amino acid sequence of SEQ ID NO:45.

## Former claim 9:

131. The isolated nucleic acid molecule of claim 128, comprising a nucleic acid sequence that encodes a polypeptide that comprises the amino acid sequence of SEQ ID NO:47.

#### Former claim 10:

132. The isolated nucleic acid molecule of claim 128, comprising a nucleic acid sequence that encodes a polypeptide that comprises the amino acid sequence of SEQ ID NO:50.

#### Former claim 20:

133. The isolated nucleic acid molecule of claim 113, wherein said nucleic acid sequence is operatively positioned under the control of a promoter.

## Former claim 21:

134. The isolated nucleic acid molecule of claim 133, further defined as a recombinant vector.

## Former claim 22:

135. The isolated nucleic acid molecule of claim 133, comprised within a recombinant host cell.

#### Derived from claim 19:

136. The isolated nucleic acid molecule of claim 113, wherein said nucleic acid sequence is operatively attached to a second coding region that encodes a selected peptide or protein sequence so that said isolated nucleic acid molecule encodes a fusion protein.

## Derived from claim 11:

137. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes a P-TEFb large subunit protein, wherein said nucleic acid molecule comprises the nucleotide sequence of:

the coding sequence of a cDNA molecule present in a nucleic acid library, wherein the cDNA molecule hybridizes to a probe having the sequence of the complement of SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48 under conditions of high stringency.

- 138. The isolated nucleic acid molecule of claim 137, wherein the nucleic acid molecule comprises a nucleotide sequence of at least 21 contiguous nucleotides present in SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48.
- 139. The isolated nucleic acid molecule of claim 138, wherein the nucleic acid molecule comprises a nucleotide sequence of at least 30 contiguous nucleotides present in SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48.

- 140. The isolated nucleic acid molecule of claim 139, wherein the nucleic acid molecule comprises a nucleotide sequence of at least 40 contiguous nucleotides present in SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48.
- 141. The isolated nucleic acid molecule of claim 140, wherein the nucleic acid molecule comprises a nucleotide sequence of at least 50 contiguous nucleotides present in SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48.
- 142. The isolated nucleic acid molecule of claim 141, wherein the nucleic acid molecule comprises a nucleotide sequence of at least 60 contiguous nucleotides present in SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48.
- 143. The isolated nucleic acid molecule of claim 142, wherein the nucleic acid molecule comprises a nucleotide sequence of at least 72 contiguous nucleotides present in SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48.

#### Former claim 12:

144. The isolated nucleic acid molecule of claim 137, wherein the nucleic acid molecule has the nucleotide sequence of SEQ ID NO:44.

#### Former claim 13:

145. The isolated nucleic acid molecule of claim 137, wherein the nucleic acid molecule has the nucleotide sequence of SEQ ID NO:46.

## Former claim 14:

- 146. The isolated nucleic acid molecule of claim 137, wherein the nucleic acid molecule has the nucleotide sequence of SEQ ID NO:49.
- 147. The isolated nucleic acid molecule of claim 137, wherein the nucleic acid molecule is up to about 10,000 basepairs in length.
- 148. The isolated nucleic acid molecule of claim 147, wherein the nucleic acid molecule is up to about 5,000 basepairs in length.

- 149. An isolated nucleic acid molecule comprising a nucleic acid sequence that encodes a P-TEFb large subunit protein that exhibits at least 90% identity to the amino acid sequence set forth in SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50, wherein said P-TEFb large subunit protein binds to a P-TEFb kinase subunit protein to form a P-TEFb enzyme complex that promotes transcription elongation.
- 150. The isolated nucleic acid molecule of claim 149, wherein the encoded polypeptide exhibits between 91% and about 95% identity to the amino acid sequence set forth in SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 151. The isolated nucleic acid molecule of claim 150, wherein the encoded polypeptide exhibits between 96% and about 99% identity to the amino acid sequence set forth in SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Derived from claim 15:

- 152. An isolated nucleic acid molecule comprising:
  - (a) a first nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 16 amino acids from SEQ ID NO:2 or SEQ ID NO:6; and
  - (b) a second nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 16 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

## Former claim 17:

153. The isolated nucleic acid molecule of claim 152, wherein said first nucleic acid sequence encodes a polypeptide having the amino acid sequence of SEQ ID NO:6.

## Former claim 16:

154. The isolated nucleic acid molecule of claim 152, wherein said second nucleic acid sequence encodes a polypeptide that has the amino acid sequence of SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 18:

155. The isolated nucleic acid molecule of claim 154, wherein said second nucleic acid sequence has the nucleotide sequence of SEQ ID NO:44, SEQ ID NO:46 or SEQ ID NO:49.

#### Former claim 76:

156. The isolated nucleic acid molecule of claim 152, wherein said first nucleic acid sequence has the nucleotide sequence of SEQ ID NO:5 and wherein said second nucleic acid sequence has the nucleotide sequence of SEQ ID NO:44, SEQ ID NO:46 or SEQ ID NO:49.

#### Derived from claim 23:

- 157. An expression system comprising:
  - (a) a first expression unit comprising, under the transcriptional control of a promoter, a first nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 16 amino acids from SEQ ID NO:2 or SEQ ID NO:6; and
  - (b) a second expression unit comprising, under the transcriptional control of a promoter, a second nucleic acid sequence as defined in claim 113, claim 137 or claim 149.

## Cancel claim 77:

#### Derived from claim 78:

158. The expression system of claim 157, wherein said first expression unit comprises a first nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 18 amino acids from SEQ ID NO:2 or SEQ ID NO:6.

#### Former claim 79:

159. The expression system of claim 158, wherein said first expression unit comprises a first nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 20 amino acids from SEQ ID NO:2 or SEQ ID NO:6.

#### Former claim 80:

160. The expression system of claim 159, wherein said first expression unit comprises a first nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 50 amino acids from SEQ ID NO:2 or SEQ ID NO:6.

## Former claim 81:

161. The expression system of claim 160, wherein said first expression unit comprises a first nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 100 amino acids from SEQ ID NO:2 or SEQ ID NO:6.

#### Former claim 82:

162. The expression system of claim 161, wherein said first expression unit comprises a first nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:2.

#### Former claim 83:

163. The expression system of claim 161, wherein said first expression unit comprises a first nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:6.

#### Derived from claim 87:

164. The expression system of claim 157, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 16 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### **Derived from claim 88:**

165. The expression system of claim 164, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 18 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 89:

166. The expression system of claim 165, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 20 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 90:

167. The expression system of claim 166, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 50 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

## Former claim 91:

168. The expression system of claim 167, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 100 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.

#### Former claim 92:

169. The expression system of claim 168, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:4.

## Former claim 93:

170. The expression system of claim 168, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:45.

#### Former claim 94:

171. The expression system of claim 168, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:47.

## Former claim 95:

172. The expression system of claim 168, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEO ID NO:50.

#### Derived from claim 96:

173. The expression system of claim 157, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide and that comprises the nucleotide sequence of the coding sequence of a cDNA molecule present in a nucleic acid library, wherein the cDNA molecule hybridizes to a probe having the sequence of the complement of SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48 under conditions of high stringency.

## Former claim 97:

174. The expression system of claim 173, wherein said second expression unit comprises a second nucleic acid sequence that has the nucleotide sequence of SEQ ID NO:44.

## Former claim 98:

175. The expression system of claim 173, wherein said second expression unit comprises a second nucleic acid sequence that has the nucleotide sequence of SEQ ID NO:46.

## Former claim 99:

176. The expression system of claim 173, wherein said second expression unit comprises a second nucleic acid sequence that has the nucleotide sequence of SEQ ID NO:49.

177. The expression system of claim 157, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that exhibits at least 90% identity to the amino acid sequence set forth in SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50, wherein said polypeptide binds to a P-TEFb kinase subunit protein to form a P-TEFb enzyme complex that promotes transcription elongation.

## Former claim 24:

178. The expression system of claim 157, wherein said first and said second expression units are comprised in a single expression vector.

#### Former claim 25:

179. The expression system of claim 157, wherein said first and said second expression units are each comprised in a separate expression vector.

#### Former claim 26:

180. The expression system of claim 157, wherein said expression system is comprised within a recombinant host cell.

# 181. An expression system comprising:

- (a) a first expression unit comprising, under the transcriptional control of a promoter, a first nucleic acid sequence that encodes a polypeptide and that comprises the nucleotide sequence of the coding sequence of a cDNA molecule present in a nucleic acid library, wherein the cDNA molecule hybridizes to a probe having the sequence of the complement of SEQ ID NO:1 or SEQ ID NO:5 under conditions of high stringency; and
- (b) a second expression unit comprising, under the transcriptional control of a promoter, a second nucleic acid sequence as defined in claim 113, claim 137 or claim 149.

#### Derived from claim 84:

182. The expression system of claim 181, wherein said first expression unit comprises a first nucleic acid sequence that comprises the nucleotide sequence of the coding sequence of a cDNA molecule present in a nucleic acid library, wherein the cDNA molecule hybridizes to a probe having the sequence of the complement of SEQ ID NO:5 under conditions of high stringency.

#### Derived from claim 85:

183. The expression system of claim 181, wherein said first expression unit comprises a first nucleic acid sequence that comprises the nucleotide sequence of the coding sequence of a cDNA molecule present in a nucleic acid library, wherein the cDNA molecule hybridizes to a probe having the sequence of the complement of the nucleotide sequence from position 115 to position 1327 of SEQ ID NO:1.

#### Former claim 86:

- 184. The expression system of claim 181, wherein said first expression unit comprises a first nucleic acid sequence that has the nucleotide sequence of SEQ ID NO:5.
- 185. The expression system of claim 181, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that comprises a contiguous sequence of at least about 16 amino acids from SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50.
- 186. The expression system of claim 185, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:4.
- 187. The expression system of claim 185, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:45.
- 188. The expression system of claim 185, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:47.
- 189. The expression system of claim 185, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that has the amino acid sequence of SEQ ID NO:50.

- 190. The expression system of claim 181, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide and that comprises the nucleotide sequence of the coding sequence of a cDNA molecule present in a nucleic acid library, wherein the cDNA molecule hybridizes to a probe having the sequence of the complement of SEQ ID NO:3, SEQ ID NO:43 or SEQ ID NO:48 under conditions of high stringency.
- 191. The expression system of claim 190, wherein said second expression unit comprises a second nucleic acid sequence that has the nucleotide sequence of SEQ ID NO:44.
- 192. The expression system of claim 190, wherein said second expression unit comprises a second nucleic acid sequence that has the nucleotide sequence of SEQ ID NO:46.
- 193. The expression system of claim 190, wherein said second expression unit comprises a second nucleic acid sequence that has the nucleotide sequence of SEQ ID NO:49.
- 194. The expression system of claim 181, wherein said second expression unit comprises a second nucleic acid sequence that encodes a polypeptide that exhibits at least 90% identity to the amino acid sequence set forth in SEQ ID NO:4, SEQ ID NO:45, SEQ ID NO:47 or SEQ ID NO:50, wherein said polypeptide binds to a P-TEFb kinase subunit protein to form a P-TEFb enzyme complex that promotes transcription elongation.
- 195. The expression system of claim 181, wherein said first and said second expression units are comprised in a single expression vector.
- 196. The expression system of claim 181, wherein said first and said second expression units are each comprised in a separate expression vector.
- 197. The expression system of claim 181, wherein said expression system is comprised within a recombinant host cell.

## Derived from claim 27:

198. A recombinant host cell comprising an isolated nucleic acid molecule in accordance with claim 110, claim 113, claim 137, claim 149 or claim 152.

## Former claim 28:

199. The recombinant host cell of claim 198, wherein said cell is a prokaryotic host cell.

## Former claim 29:

200. The recombinant host cell of claim 198, wherein said cell is a eukaryotic host cell.

## Former claim 100:

201. The recombinant host cell of claim 200, wherein said cell is a mammalian host cell.

## Former claim 30:

- 202. The recombinant host cell of claim 198, wherein said cell further comprises an HIV Tat protein.
- 203. The recombinant host cell of claim 198, wherein said cell comprises an isolated nucleic acid molecule in accordance with claim 110.
- 204. The recombinant host cell of claim 198, wherein said cell comprises an isolated nucleic acid molecule in accordance with claim 113.
- 205. The recombinant host cell of claim 198, wherein said cell comprises an isolated nucleic acid molecule in accordance with claim 137.
- 206. The recombinant host cell of claim 198, wherein said cell comprises an isolated nucleic acid molecule in accordance with claim 149.

## Derived from claim 31:

207. The recombinant host cell of claim 198, wherein said cell comprises an isolated nucleic acid molecule in accordance with claim 152.

## Derived from claim 101:

- 208. A recombinant host cell that comprises an expression system in accordance with claim 157 or claim 181.
- 209. The recombinant host cell of claim 208, wherein said cell comprises an expression system in accordance with claim 157.

- 210. The recombinant host cell of claim 208, wherein said cell comprises an expression system in accordance with claim 181.
- 211. The recombinant host cell of claim 208, wherein said cell is a prokaryotic host cell.
- 212. The recombinant host cell of claim 208, wherein said cell is a eukaryotic host cell.
- 213. The recombinant host cell of claim 212, wherein said cell is a mammalian host cell.
- 214. The recombinant host cell of claim 208, wherein said cell further comprises an HIV Tat protein.

## Former claim 32:

- 215. The recombinant host cell of claim 208, wherein said expression system comprises a first and second expression unit comprised in a single expression vector.
- 216. The recombinant host cell of claim 208, wherein said expression system comprises a first and second expression unit each comprised in a separate expression vector.

## Cancel claims 102-109: